SAMSUNG TECHWIN

Supreme Resolution WDR Camera

User Manual

SCB-3003

CE

SAMSUNG

Supreme Resolution WDR Camera
User Manual

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Warranty
If the product does not operate properly in normal conditions, please let us know. Samsung Techwin will resolve the problem for free of charge. The warranty period is 3 years. However, the followings are excluded:

- If the system behaves abnormally because you run a program irrelevant to the system operation.
- Deteriorated performance or natural worn-out in process of time

❖ Design and specifications are subject to change without prior notice.

Before operating the camera, confirm the camera model and correct input power voltage. To help you understand this manual thoroughly, we'll introduce our model description.

■ SCB-2002 SERIES

- NTSC MODEL
  SCB-3003N
- PAL MODEL
  SCB-3003P

■ MODEL DESCRIPTION

- SCB-3003X

- SIGNAL SYSTEM
  N → NTSC MODEL
  P → PAL MODEL

safety information

CAUTION

RISK OF ELECTRIC SHOCK.
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol indicates that dangerous voltage consisting a risk of electric shock is present within this unit.

This exclamation point symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

- To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.
- To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.

WARNING

1. Be sure to use only the standard adapter that is specified in the specification sheet. Using any other adapter could cause fire, electrical shock, or damage to the product.
2. Incorrectly connecting the power supply or replacing battery may cause explosion, fire, electric shock, or damage to the product.
3. Do not connect multiple cameras to a single adapter. Exceeding the capacity may cause abnormal heat generation or fire.
4. Securely plug the power cord into the power receptacle. insecure connection may cause fire.
5. When installing the camera, fasten it securely and firmly. The fall of camera may cause personal injury.

6. Do not place conductive objects (e.g. screwdrivers, coins, metal parts, etc.) or containers filled with water on top of the camera. doing so may cause personal injury due to fire, electric shock, or falling objects.
7. Do not install the unit in humid, dusty, or sooty locations. doing so may cause fire or electric shock.
8. If any unusual smells or smoke come from the unit, stop using the product. in such case, immediately disconnect the power source and contact the service center. continued use in such a condition may cause fire or electric shock.
9. If this product fails to operate normally, contact the nearest service center. never disassemble or modify this product in any way. (samsung is not liable for problems caused by unauthorized modifications or attempted repair.)
10. When cleaning, do not spray water directly onto parts of the product. doing so may cause fire or electric shock.

CAUTION

1. Do not drop objects on the product or apply strong shock to it. Keep away from a location subject to excessive vibrationor magnetic interference.
2. Do not install in a location subject to high temperature (over 55°C), low temperature (below -10°C), or high humidity. Doing so may cause fire or electric shock.
3. If you want to relocate the already installed product, be sure to turn off the power and then move or reinstall it.
4. Remove the power plug from the outlet when then there is a lightning. Neglecting to do so may cause fire or damage to the product.
5. Keep out of direct sunlight and heat radiation sources. It may cause fire.
6. Install it in a place with good ventilation.
7. Avoid aiming the camera directly towards extremely bright objects such as sun, as this may damage the CCD image sensor.
8. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
9. The Mains plug is used as a disconnect device and shall stay readily operable at any time.
10. Do not expose the camera to radioactivity. Radioactivity exposure may damage the CCD.

safety information

FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions :

1) This device may not cause harmful interference, and
2) This device must accept any interference received including interference that may cause undesired operation.

CAUTION

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

IC Compliance Notice

This Class A digital apparatus meets all requirements of the Canadian Interference.-Causing Equipment Regulations of ICES-003.

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

Correct disposal of batteries in this product

(Applicable in the European Union and other European countries with separate battery return systems.)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

important safety instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.

13. Unplug this apparatus when a card is used. Use caution when moving the cart/ apparatus combination to avoid injury from tip-over.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as powersupply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus

Samsung Techwin cares for the environment at all product manufacturing stages to preserve the environment, and is taking a number of steps to provide customers with more environment-friendly products.The Eco mark represents Samsung Techwin's will to create environment-friendly products, and indicates that the product satisfies the EU RoHS Directive.

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Features

- **High Resolution**
  By adopting a diagonal 6mm (1/3") 520,000 pixel (NTSC), 610,000 pixel (PAL) Super HAD CCD II, the camera produces clear picture quality with a horizontal resolution of Max 700TVL in ER mode and 700TVL for BW .

- **Excellent Sensitivity**
  The built-in high sensitivity COLOR CCD produces a clear image.
  – Color : 0.1Lux @ F1.2, 0.0002 Lux (Sens–up, 512x)
  B/W : 0.01 Lux @ F1.2, 0.00002 Lux (Sens–up, 512x)

- **Intelligence**
  Without assistance from an external sensor, this camera independently detects and traces objects while examining stillness and movement to activate the alarm.

- **SSNR3 (Samsung Super Noise Reduction) Function**
  High performance SV-V DSP Chip removes noises of GAIN resulting from the low light level and shows a vivid, high definition video even in the dark place.

- **Day&Night (ICR)**
  This camera has a function that automatically selects the mode that is appropriate for daytime or night-time conditions. The COLOR mode operates in daytime conditions to provide optimum colors, and B/W mode operates in night-time conditions to enhance the definition of the image.

- **SSDR (Samsung Super Dynamic Range)**
  For images with high contrast between bright and dark areas from difficult lighting conditions such as backlighting, this camera selectively illuminates darker areas while retaining the same light level for brighter areas to even out the overall brightness.

- **PROFILE**
  You can set a mode according to the camera installation conditions.
  - BASIC, DAYNIGHT, BACKLIGHT, ITS, INDOOR, USER,

- **PIP**
  Displays a full-size image along with the thumbnail.

- **WDR**
  By adopting a proprietary SV-V DSP chip, the camera delivers clear, high quality pictures even in backlight, by increasing exposure in dark areas while decreasing it in bright areas; a corrected image with clear details results.

introduction

- **VPS(Virtual Progressive Scan)**
  By adopting a proprietary SV-V DSP chip, the camera delivers clear, high quality pictures even in backlight, by increasing exposure in dark areas while decreasing it in bright areas; a corrected image with clear details results.

- **Video/DC Drive Lens Support**
  You can select Video or DC Drive Lens from the menu.

- **DIS (Digital Image Stabilizer)**
  The DIS function compensates for any camera movement, to produce more stable pictures.

- **SIMPLE FOCUS**
  Using SIMPLE FOCUS, you can easily adjust the focus.

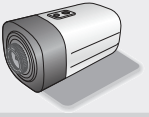
- **Miscellaneous Functions**
  HLC(High Light Compensation), SENS-UP, REVERSE , D-ZOOM, SHARPNESS and PRIVACY functions are provided.

- **Communication**
  Coaxial and RS-485 communication methods are supported.
  - Coaxial Communications : Pelco Coaxitron
  - RS-485 Communications : Samsung-T, Samsung-E, PELCO-D, PELCO-P, BOSCH, HONEYWELL, VICON, PANASONIC, GE, AD

- **OSD**
  The camera's OSD is complimented by 19 languages.
  - NTSC : English, Korean, Japanese, Spanish, French, Portuguese
  - PAL : English, Chinese, German, Italian, French, Spanish, Russian, Czech, Polish, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese

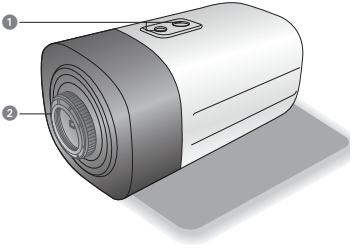
Components and Accessories

Check if the following items are included in the product package.

		
SCB-3003	Auto Iris Lens Connector Plug	C-Mount Adapter
Quick Manual	10 level terminal block	

Overview

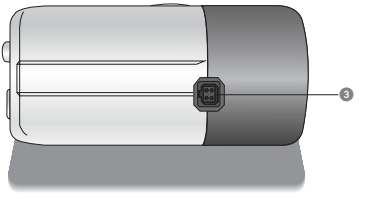
Front View



❶ **Tripod Mounting Bracket Screw Hole :**
Used to fix the Tripod Mounting Bracket to the top of the camera.

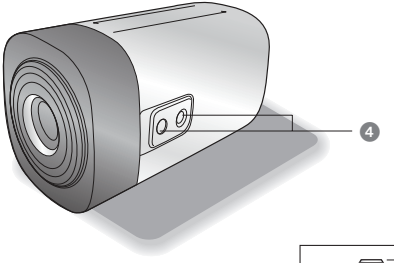
❷ **C-Mount Lens Adapter :** Install this adapter to use a C-Mount Lens.

Side View

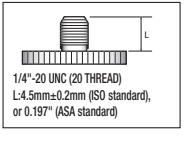


3 Auto Iris Lens Connector :
Used to connect Auto Iris Lens plug.

Bottom View

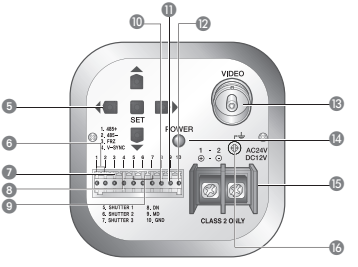


4 Tripod Mounting Bracket Screw Hole :
Used to fix the camera on a bracket or tripod.
The screw sizes for this hole are as follows.



■ Tripod is not supplied with the camera. Please check the installed documentation of tripod for the installation of cameras.

Rear View



5 Function Setup Button

- SET button : (Short press) The SIMPLE FOCUS operates.
  (Long press) The menu screen is displayed.
  Use it to go the lower menu on the menu screen.
- Up & Down button : Used to move the cursor up or down in the menu screen.
- Left · right button : Move the cursor left and right on the menu screen.
  If the menu screen is not desired, move the focus to Near or Far.

6 RS-485 Control Port : You can control SETUP MENU through this port by using external controllers like a Remote controller that RS-485 Communication is supported.

7 FREEZE Mode Setting Terminal : Turns on or off FREEZE function.

8 V-SYNC Input Terminal : Enables External Sync.

9 Shutter Speed Select Terminal : Selects external sync shutter speed.

	SHUTTER 1	SHUTTER 2	SHUTTER 3
1/60	OFF	OFF	OFF
1/120	ON	OFF	OFF
1/250	OFF	ON	OFF
1/500	ON	ON	OFF
1/700	OFF	OFF	ON
1/1000	ON	OFF	ON
1/1600	OFF	ON	ON
1/2500	ON	ON	ON

[Interlace mode]

⑩ **D & N Input Port :** You can switch to Day & Night Mode by connecting an external signal to this port.

⑪ **MD Output Port :** Motion detection signals are output through this port.

⑫ **GND**

⑬ **Video OUT Terminal :** Sends video signal and connects to the video input terminal of the monitor.

⑭ **Power LED :** This lamp is lit when the camera is receiving power normally.

⑮ **Power input terminal :** Connects to the power appropriate to each model.

⑯ **Ground terminal**

※External I / O port configuration

Num	Name	I/O Direction
1	RS-485+	I/O
2	RS-485-	I/O
3	Freeze	I
4	V-SYNC	I
5-7	Shutter	I
8	DN	I
9	MD	O
10	GND	-

■ When using the FREEZE Mode Setting Terminal, the Shutter Speed Select Terminal and the D & N Input Port, Connect each of the terminals to the Ground Terminal.

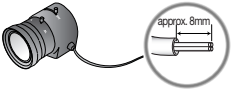
Lens

The lens is not supplied with this camera. Purchase a lens suitable for your environment. This camera accepts the auto iris lens and both C-and CS-mount lens.

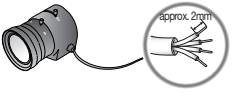
- To use the functions of this camera effectively it is recommended that a DC type Auto Iris lens is used.
- Keep the lens surface clean, if it becomes contaminated with dirt or fingerprints the picture quality suffers.

When Using Auto Iris Lens

1. Strip the insulation of the auto iris lens cable 8mm from the end.

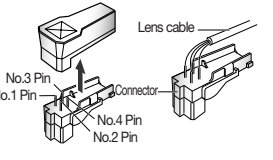


2. Strip the insulation of the core of the auto iris lens cable to expose a 2mm length.

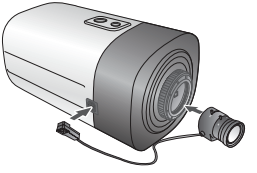


3. Remove the cover of the auto iris lens connector plug and solder the lens cable to the connector pin of the plug.

	LENS	
Pin No.	DC	VIDEO
No.1 Pin	Damping -	Red (power)
No.2 Pin	Damping +	NC
No.3 Pin	Drive +	White (video signal)
No.4 Pin	Drive -	Black (GND)



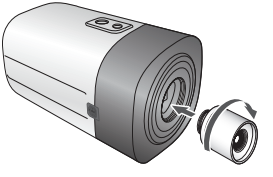
4. Fit the cover of the auto iris lens connector plug, remove the protective glass cover from the front of the camera, and fasten the auto iris lens by turning it clockwise.



5. Combine the lens and adjust the focus manually first. Then use SIMPLE FOCUS to easily adjust the focus.

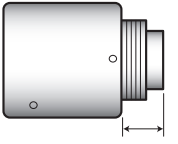
When Using a C/CS-Mount lens

Before installing a lens, identify whether the lens to be installed is a C-Mount or CS-Mount. This camera is set for a CS-Mount Lens by default. To install a C-Mount Lens, a simple modification is required.



- **When Using a CS-Mount Lens**
  Remove the protective glass cover at the front of this product and turn the CS-Mount Lens clockwise to install it. Combine the lens and adjust the focus manually first. Then use SIMPLE FOCUS to easily adjust the focus.

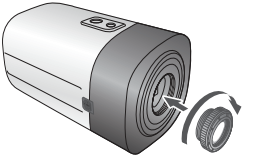
- Use the lens connector shown in the following figure. If the dimensions of the connector are not correct, it may damage the camera, or the lens may not be installed firmly.
- If the lens is too heavy, the camera becomes unbalanced and there may be problems. Use a lens that weighs less than 450g.
- When adjusting the Automatic Level Control (ALC) of an auto iris lens, use Av mode if available. If you use the Pk mode, the picture brightness may change continuously.



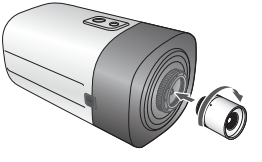
C-Mount Lens: 10mm or less
CS-Mount Lens: 5mm or less

• **When Using a C-Mount Lens**

1. Remove the protective glass cover at the front of this product and turn the C-Mount Adapter clockwise to install it.



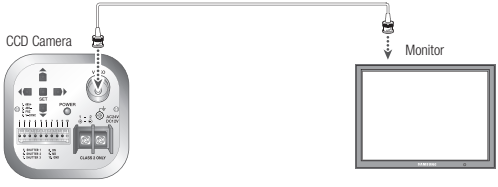
2. Turn the C-Mount lens clockwise to install it.



3. Combine the lens and adjust the focus manually first. Then use SIMPLE FOCUS to easily adjust the focus.

Connecting to Monitor

Connect the Video OUT port on the rear panel of the camera to a monitor.



- As the connecting method varies with the instruments, refer to the manual supplied with the instrument.
- Only connect the cable when the power is turned off.

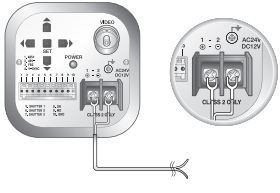
Connecting to Power

Since power specifications differ depending on the model, make sure to check your model name and specifications before connecting power.

You can connect power as shown in the following figure.

For AC / DC power

Since the power specification supports both AC and DC, connect AC 24V, 500mA Adaptor or DC 12V, 500mA Adaptor.



When the resistance value of copper wire is at [20°C(68°F)]

Copper wire size (AWG)	#24 (0.22mm²)	#22 (0.33mm²)	#20 (0.52mm²)	#18 (0.83mm²)
Resistance value(Ω/m)	0.078	0.050	0.030	0.018
Voltage Drop (V/m)	0.028	0.018	0.011	0.006

- As shown in the table above, voltage decreases as the wire gets longer. Therefore use of an excessively long adaptor output line for connection to the camera may affect the performance of the camera.

※ Standard voltage for camera operation : DC 12V±10%, AC 24V±10%

※ There may be some deviation in voltage drop depending on the type of wire and the manufacturer.

■ Be sure to connect power only after all the installation is complete.

Control via RS-485 Interface

The camera can be controlled by using external controllers like a Remote controller. (RS-485 Communication)

(1) To control by PC
Connect the RS-485 control port of the camera and the serial cable through an RS-485 converter.
Example) PC Serial Port (COM1) → Serial Cable →RS-485 Converter → Camera RS-485Control Port.

(2) To control using a DVR or System Controller
Connect the RS-485 cable (TRX+, TRX-) to the connection port of the 485 control board that is connected to the DVR or System Controller.

485 Control Board Connection Port	RS-485 Control Port
(+) CONNECTION TERMINAL (TRX+)	485+
(-) CONNECTION TERMINAL (TRX-)	485-

* RS-485 Communication establishment initial value

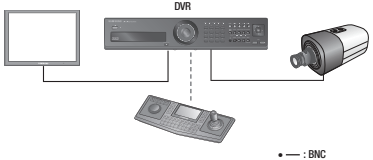
Item	Camera ID	BAUD RATE	UART MODE	RET PKT
Initial value	1	19200	8-NONE-1	ENABLE

■ To control the camera by constructing an additional controller, use the SAMSUNG-T, SAMSUNG-E, PELCO-D, PELCO-P, BOSCH, HONEYWELL, VICON and PANASONIC, GE, AD protocol.

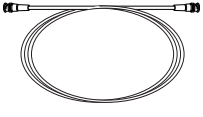
Using Coaxial Communications

- Coaxial Communications System
- OSD Control method
- If you set the sensitivity level of the sub menu item (of COAX) to “Low”, you have to press the MENU/ENTER (OSD KEY) button twice in a row to access the OSD menu. (To prevent an error by noise from the DVR)

CAMERA	DVR	CONTROLLER
SET	MENU/ENTER	OSD KEY
UP	UP KEY	JOYSTICK UP
DOWN	DOWN KEY	JOYSTICK DOWN
LEFT	LEFT KEY	JOYSTICK LEFT
RIGHT	RIGHT KEY	JOYSTICK RIGHT



- Video Cable
  The camera's video output port is connected to the monitor with a BNC coaxial cable, shown below. If the distance between the camera and the monitor exceeds the recommended maximum, please use an auxiliary video amp.



Distance	Recommended Cable Specification
300m	3C2V(RG-59/U)
450m	5C2V(RG-6/U)
600m	7C2V(RG-11/U)

■ It is recommended that pure copper coax cable is used and not copper coated steel, as this will cause issues with the communication over the coaxial cable.

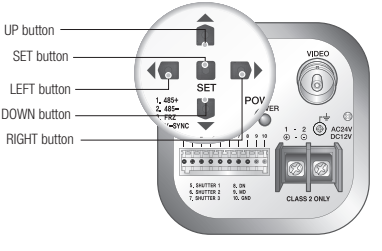
Menu Configuration

MAIN SETUP			
LENS	• DC	• VIDEO	• MANUAL
EXPOSURE	• BRIGHTNESS • SENS-UP	• SHUTTER • RETURN	• AGC
WHITE BAL	• ATW • MANUAL	• OUTDOOR • AWC→SET	• INDOOR
BACKLIGHT	• OFF • SSDR	• USER BLC • WDR	• HLC
SSNR3	• ON	• OFF	
DAY/NIGHT	• AUTO • B/W	• EXTERN	• COLOR
PROFILE	• BASIC • ITS	• DAY/NIGHT • INDOOR	• BACKLIGHT • USER
SPECIAL	• IMAGE ADJ • INTELLIGENCE • COMM ADJ	• CAM TITLE • PRIVACY • LANGUAGE	• SYNC • DIS • RETURN
EXIT	• SAVE	• NOT SAVE	• RESET

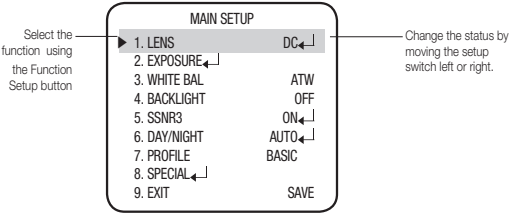
Menu Setup

Use the Function Setup button within the camera.

1. Press the SET button for more than three seconds.



- Main SETUP menu is displayed on the monitor screen.



2. Select a desired function using the Function Setup button.
- Place the cursor over a desired item.

3. Set up a selected item by using The Function Setup button.

4. To finish the setting, select 'EXIT' and press The set button .

- An item with the ↵ icon also has sub menus. To select a sub menu, select an item with the icon and press the set button.
- An item with the --- icon is unavailable due to function settings.

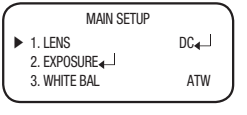
LENS

Using this function, you can control the screen brightness.

1. When the SETUP menu screen is displayed, select'LENS'by using the Function Setup button so that the arrow indicates'LENS'.

2. Select the connected lens type by using the Function Setup button.

- **DC/Video :** Select Auto Iris Lens. You can adjust the minimum shutter and maximum value of ESC shutter mode when DC Lens mode is selected.



- **Manual :** Select Manual Lens.

3. Each Lens mode has sub menu site as listed below.

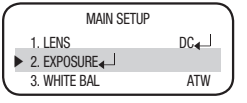
- Brightness (DC, Manual) : Adjusts the video brightness.
- Level (VIDEO) : Adjusts the level of video iris signals; the higher the level, the brighter the video looks.
- FOCUS ADJ (DC, VIDEO) :
  To correctly adjust the focus of LENS, activate the focus setup mode located at the bottom of each lens menu.
  Go to the focus setup menu to adjust the focus of the lens. Then exit from the mode exit. (The VIDEO lens requires an extra step: go to the sub menu of the Focus Settings mode and change the shutter speed to adjust the lens brightness.)
  1) Set your focus to the next sequence.
     - FOCUS initialization : Move the focus to the default (BFL).
     - Lens adjustment : Manually adjusts the lens focus and make an image look clearer.
     - AFTER D/N : Automatically adjust the focus of the video.
  2) ER D/N : After D or N is switched, select whether to use the focus readjustment function.
- IRIS SPEED (DC) : Adjusts the Iris control speed of the DC lens. If the control speed is too slow or fast, please use this menu to adjust the speed.

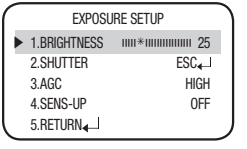
- When using VIDEO lens, adjust the lens VR explained below first and set the focus using 'FOCUS ADJ' menu.
- If color rolling occurs when using a DC lens, set Shutter to ---.
- Some lenses may not work properly, depending on the setting of the BRIGHTNESS LEVEL.
- When Using a Video-Type Auto Iris Lens
  1) Adjust the ALC adjustment terminal on the lens appropriately. In general, set it to AV (Average).
  2) Adjust the ALC adjustment terminal on the lens appropriately. In general, set it to AV (Average).
  3) Set AGC to OFF and adjust the Lens VR to an appropriate brightness.
  4) Adjust the Lens VR, adjust the BRIGHTNESS, and then check if the screen brightness changes properly. Otherwise, adjust the Lens VR again.

  ※ Lens' level VR may not operate depending on the type of lens.

EXPOSURE

1. When the SETUP menu screen is displayed, select 'EXPOSURE' by using the Function Setup button so that the arrow indicates 'EXPOSURE'.
2. Select a desired mode using the Function Setup button.
   - **BRIGHTNESS :** Adjusts the video brightness.
   - **SHUTTER :** You can select the shutter.
     - ESC : Select this to control the shutter speed automatically. If ESC is selected, the shutter speed is automatically controlled depending on the ambient illumination of the subject.





     - MANUAL : You can control shutter speed manually.
       (NTSC MODEL - 1/60sec~1/120,000sec, PAL MODEL - 1/50sec~1/120,000sec)
     - A.FLK : Select this when you experience picture flicker, this happen when there is a clash with the installed lighting frequency.
     - EXTERN : Use the Shutter Speed Select Terminal on the back of the camera to control the shutter speed via an external input. You can control the desired speed as shown in the table below by connecting the terminal to the Ground Terminal.

	SHUTTER 1	SHUTTER 2	SHUTTER 3
1/60(1/50)	OFF	OFF	OFF
1/120(1/100)	ON	OFF	OFF
1/250	OFF	ON	OFF
1/500	ON	ON	OFF
1/700	OFF	OFF	ON
1/1000	ON	OFF	ON
1/1600	OFF	ON	ON
1/2500	ON	ON	ON

[Interlace Mode]

     - --- : Shutter speed is fixed at 1/60 sec (1/50 sec).

- When you use a DC lens, set the shutter mode to --- if color rolling occurs.
- When the SHUTTER is set to ESC after selecting the Internal Synchronization Type, the picture may become unstable if the camera faces a bright fluorescent light. Therefore, take care when choosing the installation position.
- When the SHUTTER is set to MANUAL or A.FLK mode, SENS-UP will be disabled.
- When using an external input, Connect the Shutter Speed Select Terminal to the Ground Terminal.

• **AGC(AUTO GAIN CONTROL) :** The higher the gain level, the brighter the screen - but the greater the noise.
- HIGH : Allows automatic gain control from 5.3dB to 42dB.
- OFF : Deactivates the AGC function.
- LOW : Allows automatic gain control from 5.3dB to 32dB.

• **SENS-UP :** When it is night or dark, the camera automatically detects the light level and maintains a clear picture if this mode is activated.
- OFF : Deactivates the SENS-UP function.
- AUTO : Activates the SENS-UP function.

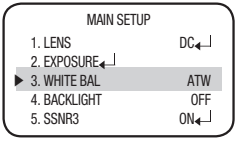
- If you set the Function Setup button to 'AUTO' mode, You can adjust the brightness by increasing or decreasing the shutter speed. (x2 ~ x512)
- Note that the higher the zoom level, the brighter the screen, but the more likely it is that an after-image will appear.
- Although Noise, Spots, and Whitish symptoms may occur in SENS-UP operation when the zoom level is increased, this is normal.
- If GAIN of EXPOSURE is not in use, the SENS-UP (Sensitivity-Up) is set to "---".

• **RETURN :** Return to the SETUP menu.

White Bal (White Balance)

Use the White Balance function to adjust the screen color.

1. When the SETUP menu screen is displayed, select 'White Bal' by using the Function Setup button so that the arrow indicates 'White Bal' .
2. Select a desired mode using the Function Setup button.



※ Select one of the following 5 modes, as appropriate for your purpose.

- **ATW :** Select this when the color temperature is between 2,400°K and 10,500°K.
- **OUTDOOR :** Select this when the color temperature is between 1,700°K and 11,000°K. (sodium light inclusion) Select this When the color temperature of environment surrounding the subject is out of the control range (e.g. clear sky, or sunset)
- **INDOOR :** Select this when the color temperature is between 4,500°K and 8,500°K.
- **MANUAL :** Select this to fine-tune White Balance manually. Set White Balance first by using the ATW or AWC mode. After that button to MANUAL mode, fine-tune the White Balance and the Function Setup button.
- **AWC→SET :** To find the optimal luminance level for the current environment, point the camera towards a sheet of white paper and press the set button. If the environment changes, readjust it.

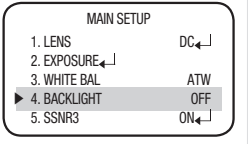
▪ White Balance may not work properly under the following conditions. In this case select the OUTDOOR mode.

1) When the ambient illumination of the subject is dim.
2) If the camera is directed towards a fluorescent light or is installed in a place where illumination changes dramatically, the White Balance operation may become unstable.

BACKLIGHT

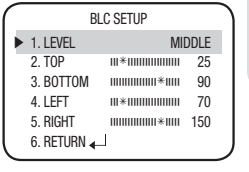
The SCB-3003 is designed so that it delivers a distinctive subject and background at the same time, even when the subject is in backlight, by adopting a function of the proprietary SV-V DSP chip.

1. When the SETUP menu screen is displayed, select 'BACKLIGHT' by using the Function Setup button. so that the arrow indicates 'BACKLIGHT'.

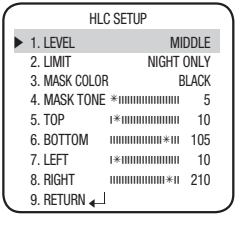


2. Select a desired mode using the Function Setup button depending on the camera purpose.

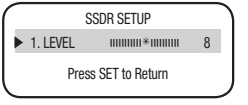
- **OFF :** Not being used
- **BLC :** Enables a user to select a desired area on a picture and view that area more clearly.
  - LEVEL : Adjusts the brightness level of a monitoring area.
  - TOP/BOTTOM/LEFT/RIGHT : Adjust the area to be enhanced.

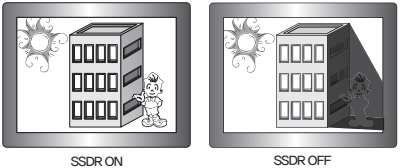


- **HLC (High Light Compensation) :**
  This function masks the strong light to minimize white out due to over exposure and preserve much of the on-screen details when the camera aims a strong light source.
  - LEVEL : Adjusts the brightness level of a monitoring area.
  - LIMIT : Enable to change the operating condition.
  - MASK COLOR/TONE : Change the color / brightness of the masking area. (Black, Red, Blue, Cyan, Magenta)
  - TOP/BOTTOM/LEFT/RIGHT : Adjust the area to be enhanced.



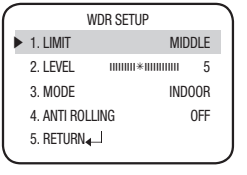
- **SSDR (Samsung Super Dynamic Range) :**
  SSDR illuminates darker areas of an image while retaining the same light level for brighter areas to even out the overall brightness of images with high contrast between bright and dark areas. Use the Function Setup button to change the SSDR level in the sub menu according to the contrast between bright and dark areas.

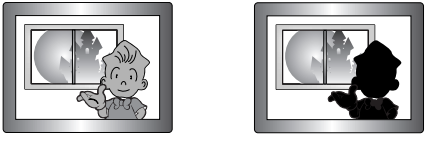




SSDR ON SSDR OFF

- **WDR :** When there are both bright and dark areas at the same time, this mode makes both areas distinctive.
  - LIMIT : Adjust the WDR Sensitivity by selecting LOW, MIDDLE, or HIGH.
  - LEVEL : Adjust the WDR Brightness by controlling the bar from 1 to 10.
  - MODE : Indoor and outdoor backlight conditions are appropriately selected.
  - ANTI ROLLING : Rolling caused around a fluorescent lamp is improved.





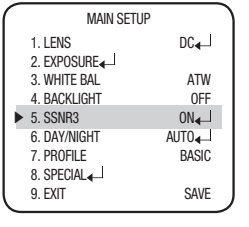
3. Select a desired mode using the Function Setup button.

- Because there can be a difference in the effectiveness of HLC according to the amount of light area in the screen, optimize the installation angle for the best HLC performance.
- When dark, the HLC is only activated when a bright light exceeding a specific size. (In NIGHT ONLY mode).
- The HLC is not activated in day light or when bright light is not present at night. (In NIGHT ONLY mode).
- Using the WDR function, select the shutter mode can be either fixed or A.FLK in the DC and Video lens. And in the manual lens, select the shutter mode can be only ESC.
- If you select the WDR, the following problems may occur depending on the lighting condition. So, deactivate it if not necessary.
  1) In the case colors are unnaturally changed and the screen is unnaturally displayed.
  2) In the case a noise in the bright part of the screen occurs.
- If you increase LIMIT, the screen display may be distorted.
- If you use the VPS (Virtual Progressive Scan) function, the CCD reads differently so you can not use WDR simultaneously. If you set VPS to ON, WDR will be automatically set to FIXED Mode.
- The use of a DC lens than the manual lens is recommended to WDR optimal performance.
- The D-ZOOM (Digital Zoom) and DIS (Digital Image Stabilization) functions are disabled if HLC (Highlight Compensation) is enabled. (Set to "---".)

SSNR3

This function reduces the background noise in a low luminance environment.

1. When the SETUP menu screen is displayed, select 'SSNR3' by using the Function Setup button so that the arrow indicates 'SSNR3'.
2. Select a desired mode using the Function Setup button.
   - **ON :** Activates SSNR3 so that noise is reduced.
   - **OFF :** Deactivates SSNR3. Noise is not reduced.
3. Set the SSNR3 mode to 'ON' and press the set button. Then you can adjust the noise reduction level.

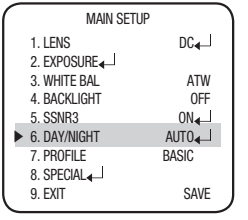


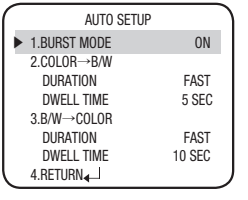
- You cannot set the SSNR3 to 'ON' or 'OFF' when the AGC mode of the 'EXPOSURE' menu is 'OFF'.
- When adjusting the noise reduction level in the SSNR3 mode, remember that the higher the level set, the more the noise level will be reduced, as will the brightness of the image.

DAY/NIGHT

You can display pictures in color or in black and white.

1. When the SETUP menu screen is displayed, select 'DAY/NIGHT' by using the Function Setup button so that the arrow indicates 'DAY/NIGHT'.
2. Select a desired mode using the Function Setup button according to the picture display you want.





- **AUTO :** The mode is switched to 'Color' in a normal environment, but switches to 'B/W' mode when ambient illumination is low. To set up the switching time for AUTO mode, press the set button. You can turn on or off the burst signal on B/W mode.
  - DURATION : You can select the day/night switching point.
  - DWELL TIME : You can select day/night switching delay time from.
    → 3s, 5s, 7s, 10s, 15s, 20s, 30s, 40, 60s

	Color → B/W	B/W → Color
Fast	2.5 lux	5 lux
Slow	1 lux	7 lux

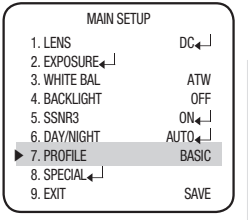
※ The day/night switching point of the camera can be adjusted.

- **EXTERN :** Ground to the grounding terminal to allow automatic switching between COLOR and B/W (Black/White).
- **COLOR :** The picture is always displayed in color.
- **B/W :** The picture is always displayed in black and white.
  You can turn on or off the burst signal on B/W mode.

- When using a Video Auto Iris Lens, if you set the lens level to low, automatic switching between Color and Black & White may not occur.
- If the GAIN of EXPOSURE menu is set to OFF, AUTO mode is not available to select.
- When using an external input, Connect the D & N Input Port to the Ground Terminal.

PROFILE

1. When the SETUP menu screen is displayed, select 'PROFILE' by using the Function Setup button so that the arrow indicates 'PROFILE'.



2. Select a desired mode using the Function Setup button according to the picture display you want.

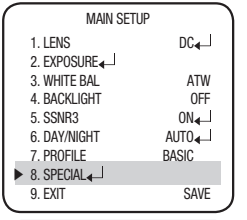
- **BASIC :** The most common environment is set to meet.
- **DAY/NIGHT :** It will be set automatically so it optimizes to the day or night conditions, respectively.
- **BACKLIGHT :** It will be set automatically so you can distinguish the object from the background in a severe backlighting scene.
- **ITS :** It will be set automatically so you can easily check the traffic conditions.
- **INDOOR :** It will be set automatically to help you take a picture in a regular indoor lighting condition.
- **USER :** Automatically configures the camera to your custom settings.
  1) Select Custom for Simple Setup mode.
  2) Configure the menu options to your custom settings.
  3) The settings are automatically saved as Custom mode.
  4) Profile user mode don't initialize when menu resets.

3. In the PROFILE menu, you can confi gure the following camera settings at once.

	BASIC	DAYNIGHT	BACKLIGHT	ITS	INDOOR	USER
SHUTTER	ESC	ESC	ESC	MANUAL(1/250)	A.FLK	-
GAIN	HIGH	HIGH	HIGH	HIGH	HIGH	-
WHITE BAL	ATW	ATW	ATW	OUTDOOR	INDOOR	-
BACKLIGHT	OFF	OFF	USER BLC	OFF	OFF	-
SSNR3	ON	ON	ON	ON	ON	-
DAY/NIGHT	AUTO	AUTO	AUTO	AUTO	AUTO	-

SPECIAL

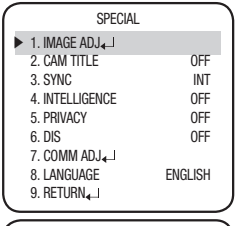
1. When the SETUP menu screen is displayed, select 'SPECIAL' by using the Function Setup button so that the arrow indicates 'SPECIAL'.



2. Select a desired mode using the Function Setup button.

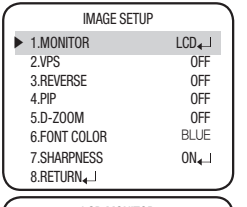
- **IMAGE ADJ :**

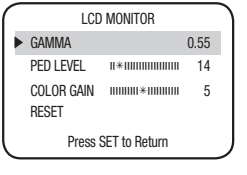
  1) When the SPECIAL menu screen is displayed, select 'IMAGE ADJ' by using the Function Setup button so that the arrow indicates 'IMAGE ADJ'.



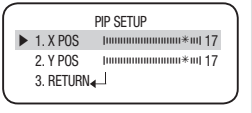
  2) Select a desired mode using the Function Setup button.

  - Monitor : Please change the settings value of video appropriate to your monitor.
    - LCD: Please select this menu item when using an LCD monitor. You can change the gamma, PED level and color gain in the sub menus.
    - CRT: Please select this menu item when using a CRT monitor. You can change the PED level, color gain in the sub menus.
    - USER : Please use this menu item when using a monitor other than standard ones. You can change the gamma, PED level and color gain in the sub menus.

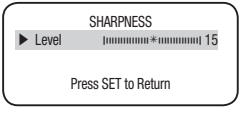




- VPS(Virtual Progressive Scan) :
  This is an advanced technology that reproduces a sharp progressive image. This is appropriate to high quality recording and file transfer via the Internet.
  - OFF : Selects 2:1 Interlaced Scan as the Imaging Method.
  - ON : Selects Progressive Scan as the Imaging Method.
- REVERSE : You can reverse the picture.
  - OFF : You don't reverse the picture.
  - H-REV : You can flip the picture horizontally on the screen.
  - V-REV : You can flip the picture vertically on the screen.
  - HV-REV : You can flip the picture horizontally and vertically on the screen.
- PIP(Picture in Picture) : Displays a full-size image along with the thumbnail to provide more detailed information. The position of the thumbnail is adjustable.



- D-ZOOM : You can use a digital zoom of x1 ~ x16.
- FONT COLOR : You can change the OSD font color. (White, Yellow, Green, Red, Blue)
- SHARPNESS : As you increase this value, the picture outline becomes stronger and clearer. Adjust this value appropriately depending on the sharpness of the picture. ER mode is resolution priority. Using the mode may cause deterioration (Thermalization)the video quality.



- RETURN : Return to the SPECIAL menu.

- When the V-REV or H-REV mode is enabled, the text on the screen does not flip.
- If you increase the SHARPNESS level too high, the picture may become distorted or noise may appear.

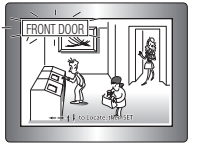
- **CAM TITLE :** If you enter a title, the title will appear on the monitor.

1) If the SPECIAL menu screen is displayed, use the Function Setup button so that the arrow indicates 'CAM TITLE'.
2) Set it to 'ON' by using the Function Setup button.

3) Press the set button.

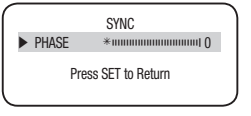
4) Use the Function Setup button to move to a desired letter and select the letter by pressing the set button. Repeat this to enter multiple letters. You can enter up to 15 letters.

5) Enter a title, move the cursor to 'POS' and press the set button. The entered title appears on the screen. Select the position to display the title on the screen by using the Function Setup button and press the set button. When the position is determined, select 'END' and press the set button to return to the SPECIAL menu.



- When the CAM TITLE menu is 'OFF', no title will be displayed on the monitor screen even if you enter one.
- and Numbers are available in this mode.
- If you move the cursor to CLR and press the set button, all the letters are deleted. To edit a letter, change the cursor to the bottom left arrow and press the set button. Move the cursor over the letter to be edited, move the cursor to the letter to be inserted and then press the set button.

- **SYNC :** In areas where the supply is at 60Hz(NTSC), 50Hz(PAL) frequency, you can synchronize the output phase of multiple cameras using the power synchronization function (Line-Lock) without using a synchronization signal generator.



- INT : Internal Synchronization Type
- L/L : Power Synchronization Type, Line-lock

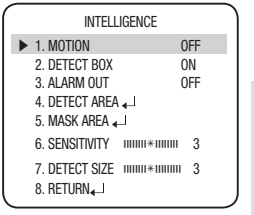
1) Press the set button.
2) You can select a desired phase from 0 to 359 when select 'phase'.

- EXTERN : The camera can use the external power source frequency for the synchronization. Regardless of the input voltage the EXTERN MODE is available only when an external trigger signal input into camera.

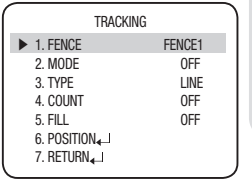
- When using AC power at 60Hz(NTSC), 50Hz(PAL) frequency, you can use the L/L type synchronization.
- When the power is DC 12V, the SYNC menu is fixed to the 'INT' mode.
- When using an external input, the signal level must be +3 V (60 Hz ± 0.2). Otherwise, the camera may malfunction and/or become damaged.

- **INTELLIGENCE :**

Commands the camera to motion-detect and trace an object.

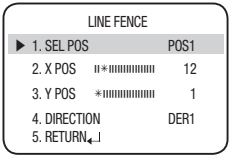


- MOTION : Select motion types to detect.
  - OFF : Not being used.
  - DETECTION : Since the camera detects motion without any additional external sensor, you can monitor activity more efficient.
  - TRACKING : Commands the camera to detect and trace a moving object.



    - FENCE : You can select up to 4 FENCE.
    - MODE : Determines whether to use the fence selected in the FENCE.
    - TYPE : Two types, line and area, of fences are available.
    - COUNT : Displays how many times a subject passes over the fence on the screen.
    - FILL : Fill or remove color from the FENCE.
    - POSITION :Defines the position and detection direction of a line or fenced area.

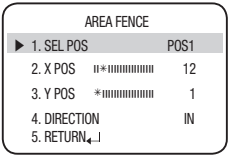
      1) LINE FENCE



        - SEL POS : Selects a position from POS1,POS2.
        - X POS / Y POS : Adjust the size and position of the selected line fence.
        - DIRECTION
          - DIR1 : Detects objects moving left to right on the fence line.
          - DIR2 : Detects objects moving right to left on the fence line.
          - DIR1/2 : Detects all objects moving crosswise on the fence line.
        - RETURN : Return to the TRACKING menu.

2) AREA FENCE

- SEL POS : Selects a position from POS1 ~ POS4.
- X POS / Y POS : Adjust the size and position of the selected area fence.
- DIRECTION
  - IN : Detects objects entering the fenced area.
  - OUT : Detects objects exiting the fenced area
  - IN/OUT : Detects all objects entering and exiting the fenced area.
- RETURN : Return to the TRACKING menu.

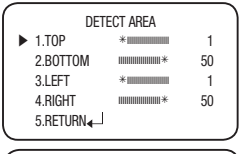


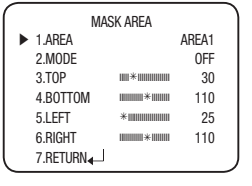
- FENCE: Return to the INTELLIGENCE menu.

- FIXED/MOVED : Detects an object that emerges or disappears from the screen, or stays onscreen without movement.

■ A detection (FIXED/MOVED) error may occur if :
- multiple motions occur continuously in random directions
- a fixed object moves in one position continuously
- a second object screens the fi rst moving object

- DETECT BOX : Outlines an object on the screen in a box when its movement matches a custom Motion Type.
- ALARM OUT : Releases a signal from the MD Output Port on the back of the camera when an object's movement matches a custom Motion Type.
- DETECT AREA : Motion Detection and tracking will only occur within this defined area. (Full Screen is defined as factory default).
- MASK AREA : Specify a detection exception area to mask.**Select a mask area number and specify the size and position.**
  - AREA : You can select up to 4 areas.
  - MODE : Determines whether to use the area selected in the AREA.
  - TOP / BOTTOM / LEFT / RIGHT : Adjust the size and position of the selected area.



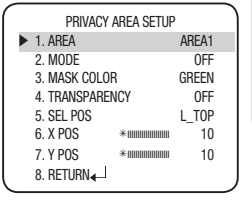


- RETURN : Select this to save the MASK AREA menu settings and return to the INTELLIGENCE menu.

- SENSITIVITY : Set the sensitivity of the motion detection. When you adjust the lower level, the more sensitive.
- DETECT SIZE : Selects an object size to detect on the screen. When you adjust higher levels, the more larger size.
- RETURN : Return to the SPECIAL menu.

• **PRIVACY :**
Mask an area you want to hide on the screen.

1) When the SPECIAL menu screen is displayed, press the set button so that the arrow indicates 'PRIVACY'.
2) Set up the mode using the Function Setup button.
- AREA : You can select up to 12 PRIVACY areas.
- MODE : Determines whether to use the area selected in the AREA.
- MASK COLOR : Determine area color. You can select Green, Red, Blue, Black, White, Gray.



- TRANSPARENCY : Adds or removes transparency from the masking area.
- SEL POS/ XPOS/ YPOS : Adjust the size and position of the selected area.
- RETURN : Return to the SPECIAL menu.

■ In case two functions, PRIVACY and FENCE of intelligence video are simultaneously set up to be overlapped, PRIVACY masking is exposed partially due to the transparency trait of the FENCE.

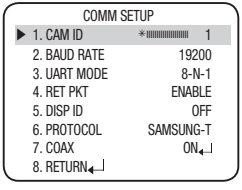
• **DIS (Digital Image Stabilizer) :** This function mitigates any picture movement due to external factors such as wind.

■ As the DIS function uses the digital zoom, the camera's resolution will decrease.
■ DIS doesn't operate when background illumination is too low.
■ DIS doesn't operate when object pattern is monotonic as like sky or white wall.

- **COMM ADJ** (Communication Adjustment) :
  This function sets up the camera communication status when controlling the camera through an external control device.

  1) When the SPECIAL menu screen is displayed, press the set button so that the arrow indicates 'COMM ADJ'.

  2) Set up the mode using the Function Setup button.
  - CAM ID : Determines the camera's identification number (between 0 and 255).
  - BAUD RATE : You can select 2400/4800/9600/19200/38400/57600 bps.
  - UART MODE : You can select NONE, EVEN or ODD for the parity bits.
  - RET PKT : Determines whether to send a command back to the controller device when a communication control command is sent to the camera.
  - DISP ID : Display camera title on top left corner of the screen.
  - PROTOCOL : Select the communication PROTOCOL. (SAMSUNG-T, SAMSUNG-E , PELCO-D, PELCO-P, BOSCH, HONEYWELL, VICON, PANASONIC, GE and AD)
  - COAX : You can select whether to use COAX communication.
    If you use the COAX communication, you prevent malfunctions by selecting low sensitivity levels against noise.
  - RETURN : Rreturn to the SPECIAL menu.



- **LANGUAGE** : You can select the menu language according to your requirements.
- **RETURN** : Return to the MAIN SETUP menu.

EXIT

Select a desired EXIT mode using the Function Setup button depending on the camera purpose.

- **SAVE :** Save the current settings and exit the MAIN SETUP menu.
- **NOT SAVE :** Do not save the current settings and exit the MAIN SETUP menu.
- **RESET :** Resets the camera settings to the factory defaults. Communication, Language and Monitor settings are not initialized.

Troubleshooting

If you have trouble operating your camera, refer to the following table.
If the guidelines do not enable you to solve the problem, contact an authorized technician.

Problems	Troubleshooting
Nothing appears on the screen.	• Check that the power cord and line connection between the camera and monitor are properly connected. • Check that you have properly connected BNC cable to the camera. • Check the type of lens.
The image on the screen is dim.	• Is lens stained with dirt? Clean your lens with soft, clean cloth. • Set the monitor or DVR to the proper condition. • If the camera is exposed to very strong light, change the camera position.
The image on the screen is dark.	• Adjust the contrast feature of the monitor or DVR. • If you have an intermediate device, set the 75Ω / Hi-z properly.
The camera is not working properly, and the surface of the camera is hot.	• Check that you have properly connected the camera to an appropriate power source.
he DAY/NIGHT menu does not work.	Check that AGC of EXPOSURE SETUP menu is 'OFF'.
The SENS-UP function does not work.	• Check that AGC of EXPOSURE SETUP menu is 'OFF'. • Check that SHUTTER of EXPOSURE SETUP menu is 'A.FLK' or 'MANUAL'.
The INTELLIGENCE function does not work.	• Check that INTELLIGENCE of menu is 'OFF'.
Color is not correct.	• Check the setting of WHITE BAL SETUP menu
The screen flickers continually.	• Ensure the camera is not pointing towards the sun.
When coaxial communication is not available	• Make sure that the camera and monitor are installed within the recommended distance. • Use the video amplifier equivalent to coaxitron if the recommended installation distance is exceeded.

Specifications

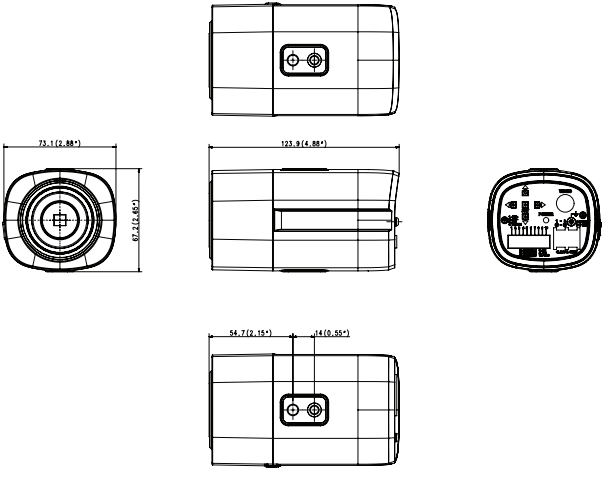
	SCB-3003N	SCB-3003P
Video		
Imaging Device	1/3 Super HAD CCD II (Double Scan)	
Total Pixels	1,028(H) x 508(V)	1,028(H) x 596(V)
Effective Pixels	976(H) x 494(V)	976(H) x 582(V)
Scanning System	2:1 Interlace	
Synchronization	Internal / Line-Lock / Extern	
Frequency	H : 15.734KHz / V : 59.94Hz	H : 15.625KHz / V : 50Hz
Horizontal Resolution	Color : 700 TV lines(ER mode). B/W : 700 TV lines	
Min. Illumination	Color : 0.1Lux @ F1.2, 0.0002 Lux (Sens-up, 512x) B/W : 0.01 Lux @ F1.2, 0.00002 Lux (Sens-up, 512x)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	CVBS : 1.0 Vp-p / 75Ω composite	
Lens Type		
Focus Control	Simple Focus / Manual / After DN	
Lens Type	Manual / Auto Iris (Video/DC)	
Mount Type	C/CS	
Operational		
On Screen Display	Multi-language Support English, Japanese, Spanish, French, Portuguese,Korean	Multi-language Support English, French, German, Spanish, Italian, Chinese, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese
Camera Title	Off / On (Displayed 15 characters)	
Day & Night	Auto (ICR) / External / Color / B/W	
Backlight Compensation	Off / User BLC / HLC / SSDR / WDR	
Wide Dynamic Range	52dB (AGC off, Weight on)	
Contrast Enhancement	SSDR	
Digital Noise Reduction	SSNRII (Off / On)	
Digital Image Stabilization	Off / On	

	SCB-3003N	SCB-3003P
Motion Detection	Built-in	
Privacy Masking	Off / On (12 programmable zones with polygonal masking)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / Low / High	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)	
Electronic Shutter Speed	1/60 ~ 1/120,000 sec	1/50 ~ 1/120,000 sec
Digital Zoom	Off / On (1x ~ 16x)	
Reverse	Off / H-Rev / V-Rev / HV-Rev	
Profile	Basic, Day & Night, Backlight, ITS, Indoor, User	
VPS	Off / On	
Intelligent Video	Fixed_Moved, Fence, Tracking, Detection, Counting	
PIP	Off / On	
Alarm	1 Out	
Communication	Coaxial Control, RS-485	
Protocol	Coax : Pelco-C (Coaxitron) RS-485: Samsung-T, Samsung-E, Pelco-D, Pelco-P, Panasonic, Bosch, Honeywell, Vicon, GE, AD	
Environmental		
Operating Temperature / Humidity	-10°C ~ +55°C / Less than 90% RH	
Electrical		
Input Voltage	Dual (24VAC±10% & 12VDC±10%)	
Power Consumption	Max. 5.4W	
Mechanical		
Color / Material	Black, Silver / Aluminum, Plastic	
Dimension (WxHxD)	73.1 x 67.2 x 123.9 mm (2.88" x 2.65" x 4.88") excluding projections	
Weight	285g	

※ The specifi cation for this product may change without prior notice for product improvement.

Dimension

Unit: mm



MEMO

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